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PATENT APPLICATION: US/09/609,027B

DATE: 03/01/2002
TIME: 15:30:49

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\03012002\I609027B.raw

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3 <110> APPLICANT: HENDRICKSON, WAYNE
 4 JIANG, XULIANG
 5 LANGLEY, KEITH E
 6 SYED, RASHID
 7 ANN HSU, YUEH-RONG
 9 <120> TITLE OF INVENTION: CONJUGATED LIGANDS FOR THE STIMULATION OF BLOOD CELL
 PROLIFERATION BY
 10 EFFECTING DIMERIZATION OF THE RECEPTOR FOR STEM CELL FACTOR
 12 <130> FILE REFERENCE: 0575/50950
 14 <140> CURRENT APPLICATION NUMBER: US 09/609,027B
 C--> 15 <141> CURRENT FILING DATE: 2000-06-29
 17 <160> NUMBER OF SEQ ID NOS: 22
 19 <170> SOFTWARE: PatentIn version 3.1
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 141
 23 <212> TYPE: PRT
 24 <213> ORGANISM: HOMO SAPIENS
 26 <400> SEQUENCE: 1
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 29 1 5 10 15
 32 Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
 33 20 25 30
 36 Val Pro Gly Met Asp Val Leu Pro Ser His Gln Trp Ile Ser Glu Met
 37 35 40 45
 40 Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
 41 50 55 60
 44 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
 45 65 70 75 80
 48 Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
 49 85 90 95
 52 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
 53 100 105 110
 56 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
 57 115 120 125
 60 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser
 61 130 135 140
 64 <210> SEQ ID NO: 2
 65 <211> LENGTH: 150
 66 <212> TYPE: PRT
 67 <213> ORGANISM: HOMO SAPIENS
 69 <400> SEQUENCE: 2
 71 Glu Glu Val Ser Glu Tyr Cys Ser His Met Ile Gly Ser Gly His Leu
 72 1 5 10 15
 75 Gln Ser Leu Gln Arg Leu Ile Asp Ser Gln Met Glu Thr Ser Cys Gln

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76	20	25	30	
79	Ile Thr Phe Glu Phe Val Asp Gln Glu Gln Leu Lys Asp Pro Val Cys			
80	35	40	45	
83	Tyr Leu Lys Lys Ala Phe Leu Leu Val Gln Asp Ile Met Glu Asp Thr			
84	50	55	60	
87	Met Arg Phe Arg Asp Asn Thr Pro Asn Ala Ile Ala Ile Val Gln Leu			
88	65	70	75	80
91	Gln Glu Leu Ser Leu Arg Leu Lys Ser Cys Phe Thr Lys Asp Tyr Glu			
92	85	90	95	
95	Glu His Asp Lys Ala Cys Val Arg Thr Phe Tyr Glu Thr Pro Leu Gln			
96	100	105	110	
99	Leu Leu Glu Lys Val Lys Asn Val Phe Asn Glu Thr Lys Asn Leu Leu			
100	115	120	125	
103	Asp Lys Asp Trp Asn Ile Phe Ser Lys Asn Cys Asn Asn Ser Phe Ala			
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108	145	150		
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112	<211> LENGTH: 129			
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114	<213> ORGANISM: HOMO SAPIENS			
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118	His Lys Cys Asp Ile Thr Leu Gln Glu Ile Ile Lys Thr Leu Asn Ser			
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122	Leu Thr Glu Gln Lys Thr Leu Cys Thr Glu Leu Thr Val Thr Asp Ile			
123	20	25	30	
126	Phe Ala Ala Ser Lys Asn Thr Thr Glu Lys Glu Thr Phe Cys Arg Ala			
127	35	40	45	
130	Ala Thr Val Leu Arg Gln Phe Tyr Ser His His Glu Lys Asp Thr Arg			
131	50	55	60	
134	Cys Leu Gly Ala Thr Ala Gln Gln Phe His Arg His Lys Gln Leu Ile			
135	65	70	75	80
138	Arg Phe Leu Lys Arg Leu Asp Arg Asn Leu Trp Gly Leu Ala Gly Leu			
139	85	90	95	
142	Asn Ser Cys Pro Val Lys Glu Ala Asn Gln Ser Thr Leu Glu Asn Phe			
143	100	105	110	
146	Leu Glu Arg Leu Lys Thr Ile Met Arg Glu Lys Tyr Ser Lys Cys Ser			
147	115	120	125	
150	Ser			
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155	<211> LENGTH: 127			
156	<212> TYPE: PRT			
157	<213> ORGANISM: HOMO SAPIENS			
159	<400> SEQUENCE: 4			
161	Ala Pro Ala Arg Ser Pro Ser Pro Ser Thr Gln Pro Trp Glu His Val			
162	1	5	10	15
165	Asn Ala Ile Gln Glu Ala Arg Arg Leu Leu Asn Leu Ser Arg Asp Thr			
166	20	25	30	
169	Ala Ala Glu Met Asn Glu Thr Val Glu Val Ile Ser Glu Met Phe Asp			

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170	35	40	45
173	Leu Gln Glu Pro Thr Cys	Leu Gln Thr Arg Leu Glu Leu Tyr Lys Gln	
174	50	55	60
177	Gly Leu Arg Gly Ser Leu Thr Lys Ile Lys Gly Pro Leu Thr Met Met		
178	65	70	75
181	80		
182	Ala Ser His Tyr Lys Gln His Cys Pro Pro Thr Pro Glu Thr Ser Cys		
185	85	90	95
186	Ala Thr Gln Ile Ile Thr Phe Glu Ser Phe Lys Glu Asn Leu Lys Asp		
189	100	105	110
190	Phe Leu Leu Val Ile Pro Phe Asp Cys Trp Glu Pro Val Gln Glu		
193	115	120	125
194	<210> SEQ ID NO: 5		
195	<211> LENGTH: 132		
196	<212> TYPE: PRT		
198	<213> ORGANISM: HOMO SAPIENS		
200	<400> SEQUENCE: 5		
201	Ala Pro Thr Ser Ser Ser Thr Lys Lys Thr Gln Leu Gln Leu Glu His		
204	1	5	10
205	15		
208	Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys		
209	20	25	30
212	Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Tyr Met Pro Lys Lys		
213	35	40	45
216	Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys Pro		
217	50	55	60
220	Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu Arg		
221	65	70	75
224	80		
225	Pro Arg Asp Leu Ile Ser Asn Ile Asn Val Ile Val Leu Glu Leu Lys		
228	85	90	95
229	Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala Thr		
232	100	105	110
233	Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Cys Gln Ser Ile Ile		
236	115	120	125
237	Ser Thr Leu Thr		
238	130		
239	<210> SEQ ID NO: 6		
241	<211> LENGTH: 115		
243	<212> TYPE: PRT		
244	<213> ORGANISM: HOMO SAPIENS		
245	<400> SEQUENCE: 6		
247	Ile Pro Thr Glu Ile Pro Thr Ser Ala Leu Val Lys Glu Thr Leu Ala		
248	1	5	10
251	15		
255	Leu Leu Ser Thr His Arg Thr Leu Leu Ile Ala Asn Glu Thr Leu Arg		
256	20	25	30
259	Ile Pro Val Pro Val His Lys Asn His Gln Leu Cys Thr Glu Glu Ile		
260	35	40	45
264	Phe Gln Gly Ile Gly Thr Leu Glu Ser Gln Thr Val Gln Gly Gly Thr		
265	50	55	60
269	Val Glu Arg Leu Phe Lys Asn Leu Ser Leu Ile Lys Lys Tyr Ile Asp		
270	65	70	75
271	80		

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263 Gly Gln Lys Lys Cys Gly Glu Glu Arg Arg Arg Val Asn Gln Phe
 264 85 90 95
 267 Leu Asp Tyr Leu Gln Glu Phe Leu Gly Val Met Asn Thr Glu Trp Ile
 268 100 105 110
 271 Ile Glu Ser
 272 115
 275 <210> SEQ ID NO: 7
 276 <211> LENGTH: 164
 277 <212> TYPE: PRT
 278 <213> ORGANISM: RATTUS SP.
 280 <400> SEQUENCE: 7
 282 Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
 283 1 5 10 15
 286 Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr
 287 20 25 30
 290 Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
 291 35 40 45
 294 Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
 295 50 55 60
 298 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val
 299 65 70 75 80
 302 Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
 303 85 90 95
 306 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
 307 100 105 110
 310 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
 311 115 120 125
 314 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
 315 130 135 140
 318 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
 319 145 150 155 160
 322 Pro Pro Val Ala
 326 <210> SEQ ID NO: 8
 327 <211> LENGTH: 164
 328 <212> TYPE: PRT
 329 <213> ORGANISM: MURINE SP.
 331 <400> SEQUENCE: 8
 333 Lys Glu Ile Cys Gly Asn Pro Val Thr Asp Asn Val Lys Asp Ile Thr
 334 1 5 10 15
 337 Lys Leu Val Ala Asn Leu Pro Asn Asp Tyr Met Ile Thr Leu Asn Tyr
 338 20 25 30
 341 Val Ala Gly Met Asp Val Leu Pro Ser His Cys Trp Leu Arg Asp Met
 342 35 40 45
 345 Val Ile Gln Leu Ser Leu Ser Leu Thr Thr Leu Leu Asp Lys Phe Ser
 346 50 55 60
 349 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Gly
 350 65 70 75 80
 353 Lys Ile Val Asp Asp Leu Val Leu Cys Met Glu Glu Asn Ala Pro Lys
 354 85 90 95

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357 Asn Ile Lys Glu Ser Pro Lys Arg Pro Glu Thr Arg Ser Phe Thr Pro
358 100 105 110
361 Glu Glu Phe Phe Ser Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
362 115 120 125
365 Phe Met Val Ala Ser Asp Thr Ser Asp Cys Val Leu Ser Ser Thr Leu
366 130 135 140
369 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
370 145 150 155 160
373 Pro Pro Val Ala
377 <210> SEQ ID NO: 9
378 <211> LENGTH: 164
379 <212> TYPE: PRT
380 <213> ORGANISM: RATTUS SP.
382 <400> SEQUENCE: 9
384 Gln Glu Ile Cys Arg Asn Pro Val Thr Asp Asn Val Lys Asp Ile Thr
385 1 5 10 15
388 Lys Leu Val Ala Asn Leu Pro Asn Asp Tyr Met Ile Thr Leu Asn Tyr
389 20 25 30
392 Val Ala Gly Met Asp Val Leu Pro Ser His Cys Trp Leu Arg Asp Met
393 35 40 45
396 Val Thr His Leu Ser Val Ser Leu Thr Thr Leu Leu Asp Lys Phe Ser
397 50 55 60
400 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Gly
401 65 70 75 80
404 Lys Ile Val Asp Asp Leu Val Ala Cys Met Glu Glu Asn Ala Pro Lys
405 85 90 95
408 Asn Val Lys Glu Ser Leu Lys Pro Glu Thr Arg Asn Phe Thr Pro
409 100 105 110
412 Glu Glu Phe Phe Ser Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
413 115 120 125
416 Phe Met Val Ala Ser Asp Thr Ser Asp Cys Val Leu Ser Ser Thr Leu
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421 145 150 155 160
424 Pro Pro Val Ala
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429 <211> LENGTH: 165
430 <212> TYPE: PRT
431 <213> ORGANISM: CANIS SP.
433 <400> SEQUENCE: 10
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436 1 5 10 15
439 Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Lys Ile Ala Leu Lys Tyr
440 20 25 30
443 Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Val Met
444 35 40 45
447 Val Glu Gln Leu Ser Val Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
448 50 55 60
451 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val

VERIFICATION SUMMARY
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